

**INFORMATION DISCLOSURE CITATION**  
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Docket Number (Optional) **Army**  
 Applicant(s) **Sittuthorn, et al**  
 Filing Date **July 19, 2000**  
 Application Number **D.v. App. 08/789,734**  
 Group Art Unit **1617**

0784 U.S. P.  
 09/618577  
 07/18/00

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>AR</i>	AA	3,540,444	11/17/70	Moreland	128	173	1/15/68
	BB	3,788,315	1/29/74	Laurens	128	173H	4/20/71
	CC	4,166,800	9/4/79	Fong	252	316	7/31/78
	DD	4,384,975	5/24/83	Fong	427	213.36	6/13/80
	EE	4,530,840	7/23/85	Tice et al.	514	179	7/29/82
	FF	4,542,025	9/17/85	Tice et al.	424	78	4/30/84
	GG	4,622,244	11/11/86	Lapka et al.	427	213.32	8/23/84
	HH	4,585,482	4/29/86	Tice et al.	106	15.05	5/25/84
	II	4,637,905	1/20/87	Gardner	264	4.3	4/11/85
	JJ	4,675,189	6/23/87	Kent et al.	424	490	2/8/85
	KK	4,798,786	1/17/89	Tice et al.	435	177	5/6/82

**FOREIGN PATENT DOCUMENTS**

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
<i>AR</i>	ab	0052510B2	10/19/94	EPO	<del>461K</del>	<del>9430</del>	✓	

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>AR</i>	aa	Gilding, Biodegradable polymers for use in surgery-polyglycolic/poly (ac c acid) homo- and copolymers: 1, Polymer, vol. 20, Dec. 1979, pp1459-1464
<i>↓</i>	bb	Biotechnology News, August 22, 1997, vol. 17, No. 20, Topical DNA vaccine elicits immune response.

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HL	LL	4,798,786	1/17/89	Tice et al.	435	177	5/6/82
	MM	4,835,139	5/30/89	Tice et al.	514	15	5/19/87
	NN	4,863,735	9/5/89	Kohn et al.	524	422	10/2/86
	OO	4,897,268	1/30/90	Tice et al.	424	422	8/3/87
	PP	4,938,763	7/3/90	Dunn et al.	604	891.1	10/3/88
	QQ	4/941/880	7/17/90	Burns	604	143	12/12/88
	RR	5,000,886	3/19/91	Lawter et al.	264	4.3	5/26/87
	SS	5,019,096	5/28/91	Fox, Jr. et al.	623	1	10/14/88
	TT	5,059,187	10/22/91	Sperry et al.	604	290	5/4/90
	UU	5,064,413	11/12/91	McKinnon et al.	604	70	11/9/89
	VV	5,075,109	12/24/91	Tice et al.	424	88	3/18/88

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HL	cc	Hall, et al., Purification and Analysis of Colonization Factor Antigen I, Cell Surface Antigen 1, and Cell Surface Antigen 3 Fimbriae from Enterotoxigenic Escherichia Coli, Journal of Bacteriology, Nov. 1989, p6372-6374, vol. 171, No. 11
↓	dd	Evans, et al. Purification and Characterization of the CFR/I Antigen of Enterotoxigenic Escherichia coli, Infection and Immunity, Aug. 1979, p 738-748, vol. 25.

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Applicant(s)

Letterstrom, et. al.

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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AK	VV	5,075,109	12/24/91	Tice, et al.	424	88	3/18/88
	WW	5,102,872	4/7/92	Singh, et al.	514	21	8/12/88
	XX	5,129,825	7/14/92	Discko, Jr.	433	90	10/10/89
	YY	5,133,701	7/28/92	Han	604	289	10/15/90
	ZZ	5,236,355	8/17/93	Brizzolara et al.	433	80	10/5/90
	AB	5,278,202	1/11/94	Dunn et al.	523	113	12/23/91
	AC	5,290,494	3/1/94	Coombes et al.	264	41	7/16/92
	AD	5,360,610	11/1/94	Tice et al.	424	426	3/15/93
	AE	5,384,133	1/24/95	Boyes, et al.	424	501	6/29/93
	AF	5,407,609	4/18/95	Tice et al.	264	46	5/17/93
	AG	5,417,986	5/23/95	Reid et al.	424	499	4/10/92

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AK	cc	Karjalainen, et al., Molecular Cloning and Nucleotide Sequence of the Colonization Factor Antigen I Gene of Escherichia coli, Infection and Immunity, Apr. 1989, p1126-1130, vol. 57
↓	ff	Jeyanthi, et al., Novel, Burst Free Programmable Biodegradable Microspheres For Controlled Release of Polypeptides, Proceedings Int. Symp. control Release Bioact. Mater. (1996) p351-352/

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Docket Number (Optional) **Army** Application Number **2,131,001**  
**7 08/1789,734**  
 Applicant(s) **Lettenstrom, et al.**  
 Filing Date **July 19, 2000** Group Art Unit **1617**

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>dk</i>	AH	5,500,228	3/19/96	Lawter et al.	424	486	11/26/90
	AI	5,538,739	7/23/96	Bodmer et al.	424	501	1/18/91
	AJ	5,639,480	6/17/97	Bodmer et al.	424	501	6/6/95
	AK	5,643,605	7/1/97	Cleland et al.	424	489	6/2/95
	AL	5,688,530	11/18/97	Bodmer, et al.	424	501	6/6/95
	AM	5,693,343	12/2/97	Reid, et al.	424	491	5/16/94
	AN	5,762,965	6/9/98	Burnett et al.	424	499	2/9/96
	AP	5,811,128	9/22/98	Tice, et al.	424	501	9/7/93
	AQ	5,814,344	9/29/98	Tice, et al.	424	501	6/6/95
	AR	5,820,883	10/13/98	Tice, et al.	424	501	6/6/95
	AS	5/853,763	12/29/98	Tice, et al.	424	489	6/6/95

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**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>dk</i>	22	Yeh, A novel emulsification-solvent extraction technique for production of protein loaded biodegradable microparticles for vaccine and drug delivery, Journal of Controlled Release, 33 (1005) 437-445.
<i>↓</i>	22	Yan, Characterization and morphological analysis of protein-loaded poly(lactide-co-glycolide) microparticles prepared by water-in-oil-in-water emulsion technique, Journal of Controlled Release, 32 (1994) 231-241.

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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA		5,429,822	7/4/95	Gresser et al.	424	426	3/13/92
BB		5,648,096	7/15/97	Gander et al.	424	489	6/22/94
CC		5,650,173	7/22/97	Ramstack et al.	424	489	10/3/96
✓ DD		3773, 919	11/20/73	Booswell	424	19	10/8/70

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Perez-Casal, et al., Gene Encoding the Major Subunit of CS1 Pill of Human Enterotoxigenic Escherichia Coll, Infection and Immunity, Nov., 1990, p 3594-3600, vol. 58, No. 11.

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Romagnoli, et al. Peptide-MHC Interaction: A Rational Approach to Vaccine Design, Inter, RE. Immunol. 6, 1990, 00 61-73.

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Brown, A hypothetical model of the foreign antigen binding site of Class II histocompatibility molecules, Nature, vol. 332, 28 April 1988, p845-850.

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